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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/990,435	11/21/2001	Martin Hillebrand Blees	PHNL000625	3638

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PHILIPS INTELLECTUAL PROPERTY & STANDARDS
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EXAMINER

CULLER, JILL E

ART UNIT	PAPER NUMBER
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2854

DATE MAILED: 09/09/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/990,435

Applicant(s)

BLEES ET AL.

Examiner

Jill E. Culler

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 August 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☒ The proposed drawing correction filed on 03 July 2003 is: a) ☒ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,047,639 to Shih.

Shih shows a stamp which comprises a permeable stamp body, 71, with a first side and a second side, said first and second sides being opposed, a structured printing face at the first side and a reservoir for a liquid at the second side, see column 3, lines 42-45, a permeable carrier body, 70, made of a porous material, connecting the permeable stamp body and the reservoir, wherein the liquid is directly transported from the reservoir, through the permeable carrier body and the permeable stamp body to the structured printing face during use. See column 4, lines 26-28.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 2-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shih in view of U.S. Patent No. 3,277,819 to Berkland.

Shih teaches all that is claimed, as in the above rejection of claims 1 and 4, and that the permeable carrier body, 70, has a first side and a second, opposed side, with the permeable stamp body at the first side and the reservoir at the second side,

Shih does not teach that the permeable carrier body comprises channels, at least a portion of which extend from the first side to the second side of the permeable carrier body and that the channels, at the first side of the permeable carrier body each have a diameter which is smaller than the distance between the first side and the second side of the permeable stamp body.

Berkland shows a stamp having a permeable carrier body, 16, which comprises channels, 16d, at least a portion of which extend from the first side to the second side of the permeable carrier body. See column 3, lines 11-13. Berkland further shows that the channels, 16d, at the first side of the permeable carrier body each have a diameter which is smaller than the distance between the first side and the second side of the permeable stamp body.

It would have been obvious to one having ordinary skill in the art at the time of the invention to provide the permeable carrier body of Shih with the channels of Berkland in order to transport ink through the carrier body more evenly and provide more uniform stamping, as taught by Berkland.

5. Claims 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shih in view of U.S. Patent No. 3,678,848 to Roser et al.

With respect to claim 5, Shih teaches all that is claimed, as in the above rejection of claims 1 and 4, except that the reservoir comprises a porous material.

Roser et al. teaches a stamp having a reservoir, 12, comprised of a porous material. See column 3, lines 43-46.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the stamp of Shih using the porous material of Roser et al. in order to have a well controlled dispersion of ink to the inking surface as taught by Roser et al. See column 4, lines 34-37.

With respect to claim 6, Shih teaches all that is claimed, as in the above rejection of claims 1 and 4, except that the stamp is cylindrical in shape, with the printing face forming the outermost cylindrical shell.

Roser et al. teaches a stamp that is cylindrical in shape, with the printing face forming the outermost cylindrical shell. See Fig. 14 in particular.

It would have been obvious to one having ordinary skill in the art at the time of the invention to use a cylindrical shape, as shown by Roser et al., to be able to use the stamp of Shih in an automated continuous stamping operation.

6. Claims 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shih in view of U.S. Patent No. 6,180,239 to Whitesides, et al.

With respect to claims 7-8, Shih teaches a stamp, as in the above rejection of claims 1 and 4. Shih also teaches a method of printing, using a stamp provided with a structured printing face, comprising bringing the stamp into contact with a substrate such that a liquid present at the printing face is transferred to the surface of the substrate.

Shih does not teach a method of printing an electronic component comprising the patterning of a surface of a substrate by means of a stamp. Shih also does not teach that the stamp is cylindrical in shape and is rotated when being applied to the substrate such that the entire printing face of the stamp is rolled over the substrate.

Whitesides, et al. teaches a method of printing an electronic component comprising the patterning of a surface of a substrate by means of a stamp. See column 2, lines 28-35. Whitesides et al. also teaches a stamp that is cylindrical in shape and is rotated when being applied to the substrate such that the entire printing face of the stamp is rolled over the substrate. See column 11, lines 15-26 and Fig. 5a-5c in particular.

It would have been obvious to one having ordinary skill in the art at the time of the invention to use the stamp of Shih with the method of Whitesides et al. as Whitesides et al. teaches that his method results in very well-defined, very closely-spaced regions, see column 8, lines 39-41, which is desirable in the printing of electronic components. It would also have been obvious to one having ordinary skill in the art at the time of the invention to use the cylindrical shape taught by Whitesides et

al. for the stamp of Shih to be able to use this stamp in an automated continuous stamping operation.

With respect to claim 9, Shih teaches a stamp, as in the above rejection of claims 1 and 4, but do not teach an apparatus for providing at least one patterned layer on a substrate.

Whitesides et al. teaches an apparatus for providing at least one patterned layer on a substrate, which apparatus is provided with a stamp.

It would have been obvious to one having ordinary skill in the art at the time of the invention to use the stamp of Shih with the apparatus of Whitesides et al. as explained in the above reasons for the rejection of claims 7-8.

Response to Arguments

7. Applicant's arguments with respect to claims 1-9 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jill E. Culler whose telephone number is (703) 308-1413. The examiner can normally be reached on M-Th 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Hirshfeld can be reached on (703) 305-6619. The fax phone

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number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

jec

A handwritten signature in black ink, appearing to read "Dan Colilla", with a long horizontal line extending to the left.

Dan Colilla
Primary Examiner
Art Unit 2854